Progress Energy

July 26, 2006

Charles L.A. Terreni
Chief Clerk and Administrator
South Carolina Public Service Commission
Post Office Drawer 11649
Columbia, South Carolina 29211

Re: Carolina Power & Light Company d/b/a Progress Energy Carolinas, Inc.
Power Plant Performance Report (June 2006)

Dear Mr. Terreni:

Enclosed are an original and one copy of the Power Plant Performance Report for Carolina Power & Light Company d/b/a Progress Energy Carolinas, Inc. for the month of June 2006.

Sincerely,

s/ Len S. Anthony

Len S. Anthony
Deputy General Counsel – Regulatory Affairs

LSA/dhs
Enclosures
45612

c: John Flitter (ORS)

Progress Energy Service Company, LLC
P.O. Box 1551
Raleigh, NC 27602

June 2006

The following units had no off-line outages during the month of June:

Brunswick Unit 1
Brunswick Unit 2
Harris Unit 1
Robinson Unit 2
Roxboro Unit 3
Roxboro Unit 4

June 2006

Mayo Unit 1

Full Forced Outage

A. Duration: The unit was taken out of service at 13:57 on June 26, and returned to service at 04:32 on June 28, a duration of 38 hours and 35 minutes.

B. Cause: Steam Leak in Turbine

C. Explanation: The unit was taken out of service due to a steam leak in the high pressure turbine. The steam leak resulted in a rupture of a thermowell on the turbine.

D. Corrective Action: Corrective maintenance activities to repair the steam leak on the turbine were performed, and the unit was returned to service.

June 2006

Roxboro Unit 2

Full Forced Outage

A. Duration: The unit was taken out of service at 09:14 on June 5, and returned to service at 19:49 on June 9, a duration of 106 hours and 35 minutes.

B. Cause: Generator Lock Out

C. Explanation: The unit was taken out of service due to a generator ground, which resulted in a generator lock out.

D. Corrective Action: Corrective maintenance activities were completed, and the unit was returned to service.

BASE LOAD POWER PLANT PERFORMANCE REPORT
Brunswick 1 **

	Month of June 2006		Twelve Month Summary		See Notes*
MDC	938	MW	938	MW	1
Period Hours	720	HOURS	8,760	HOURS	
Net Generation	667,601	MWH	7,156,154	MWH	2
Capacity Factor	98.85	%	87.09	%	
Equivalent Availability	98.00	%	85.71	%	
Output Factor	98.85	%	100.03	%	
Heat Rate	10,377	BTU/KWH	10,439	BTU/KWH	

	MWH	% of Possible	MWH	% of Possible	
Full Scheduled	0	0.00	562,800	6.85	3
Partial Scheduled	11,779	1.74	42,600	0.52	4
Full Forced	0	0.00	270,691	3.29	5
Partial Forced	1,741	0.26	281,769	3.43	6
Economic Dispatch	0	0.00	0	0.00	7
Possible MWH	675,360		8,216,880		8

* See 'Notes for Nuclear Units' filed with the January 2006 report.
** Gross of Power Agency

BASE LOAD POWER PLANT PERFORMANCE REPORT
Brunswick 2 **

	Month of June 2006	Twelve Month Summary	See Notes*
MDC	937 MW	919 MW	1
Period Hours	720 HOURS	8,760 HOURS	
Net Generation	667,959 MWH	7,672,504 MWH	2
Capacity Factor	99.01 %	95.36 %	
Equivalent Availability	98.78 %	92.64 %	
Output Factor	99.01 %	100.03 %	
Heat Rate	10,582 BTU/KWH	10,515 BTU/KWH	

	MWH	% of Possible	MWH	% of Possible	
Full Scheduled	0	0.00	231,001	2.87	3
Partial Scheduled	8,219	1.22	107,425	1.34	4
Full Forced	0	0.00	146,610	1.82	5
Partial Forced	0	0.00	87,295	1.08	6
Economic Dispatch	0	0.00	0	0.00	7
Possible MWH	674,640		8,046,060		8

* See 'Notes for Nuclear Units' filed with the January 2006 report.
** Gross of Power Agency

BASE LOAD POWER PLANT PERFORMANCE REPORT
Harris 1 **

	Month of June 2006	Twelve Month Summary	See Notes*
MDC	900 MW	900 MW	1
Period Hours	720 HOURS	8,760 HOURS	
Net Generation	651,468 MWH	7,080,541 MWH	2
Capacity Factor	100.54 %	89.81 %	
Equivalent Availability	100.00 %	88.92 %	
Output Factor	100.54 %	100.69 %	
Heat Rate	10,936 BTU/KWH	10,862 BTU/KWH	

	MWH	% of Possible	MWH	% of Possible	
Full Scheduled	0	0.00	820,800	10.41	3
Partial Scheduled	0	0.00	1,422	0.02	4
Full Forced	0	0.00	22,185	0.28	5
Partial Forced	0	0.00	92,722	1.18	6
Economic Dispatch	0	0.00	0	0.00	7
Possible MWH	648,000		7,884,000		8

* See 'Notes for Nuclear Units' filed with the January 2006 report.
** Gross of Power Agency

BASE LOAD POWER PLANT PERFORMANCE REPORT
Robinson 2

	Month of June 2006		Twelve Month Summary		See Notes*
MDC	710	MW	710	MW	1
Period Hours	720	HOURS	8,760	HOURS	
Net Generation	525,071	MWH	5,769,771	MWH	2
Capacity Factor	102.71	%	92.77	%	
Equivalent Availability	100.00	%	88.81	%	
Output Factor	102.71	%	103.66	%	
Heat Rate	10,938	BTU/KWH	10,768	BTU/KWH	

	MWH	% of Possible	MWH	% of Possible	
Full Scheduled	0	0.00	653,720	10.51	3
Partial Scheduled	0	0.00	42,506	0.68	4
Full Forced	0	0.00	0	0.00	5
Partial Forced	0	0.00	0	0.00	6
Economic Dispatch	0	0.00	0	0.00	7
Possible MWH	511,200		6,219,600		8

* See 'Notes for Nuclear Units' filed with the January 2006 report.

BASE LOAD POWER PLANT PERFORMANCE REPORT
Mayo 1 **

	Month of June 2006		Twelve Month Summary		See Notes*
MDC	745	MW	745	MW	1
Period Hours	720	HOURS	8,760	HOURS	
Net Generation	349,321	MWH	4,732,872	MWH	2
Capacity Factor	65.12	%	72.52	%	
Equivalent Availability	93.51	%	94.29	%	
Output Factor	68.81	%	76.74	%	
Heat Rate	10,782	BTU/KWH	10,428	BTU/KWH	

	MWH	% of Possible	MWH	% of Possible	
Full Scheduled	0	0.00	312,677	4.79	3
Partial Scheduled	0	0.00	12,865	0.20	4
Full Forced	28,744	5.36	32,842	0.50	5
Partial Forced	6,082	1.13	14,330	0.22	6
Economic Dispatch	152,252	28.38	1,420,614	21.77	7
Possible MWH	536,400		6,526,200		8

* See 'Notes for Fossil Units' filed with the January 2006 report.
** Gross of Power Agency

BASE LOAD POWER PLANT PERFORMANCE REPORT
Roxboro 2

	Month of June 2006		Twelve Month Summary		See Notes*
MDC	670	MW	670	MW	1
Period Hours	720	HOURS	8,760	HOURS	
Net Generation	307,669	MWH	4,679,833	MWH	2
Capacity Factor	63.78	%	79.74	%	
Equivalent Availability	79.03	%	91.70	%	
Output Factor	74.86	%	83.37	%	
Heat Rate	9,480	BTU/KWH	9,381	BTU/KWH	

	MWH	% of Possible	MWH	% of Possible	
Full Scheduled	0	0.00	137,305	2.34	3
Partial Scheduled	29,724	6.16	230,300	3.92	4
Full Forced	71,411	14.80	118,490	2.02	5
Partial Forced	0	0.00	1,267	0.02	6
Economic Dispatch	73,597	15.26	702,005	11.96	7
Possible MWH	482,400		5,869,200		8

* See 'Notes for Fossil Units' filed with the January 2006 report.

BASE LOAD POWER PLANT PERFORMANCE REPORT
Roxboro 3

	Month of June 2006	Twelve Month Summary	See Notes*
MDC	707 MW	707 MW	1
Period Hours	720 HOURS	8,760 HOURS	
Net Generation	374,559 MWH	4,381,746 MWH	2
Capacity Factor	73.58 %	70.75 %	
Equivalent Availability	99.97 %	93.62 %	
Output Factor	73.58 %	72.75 %	
Heat Rate	10,174 BTU/KWH	10,041 BTU/KWH	

	MWH	% of Possible	MWH	% of Possible	
Full Scheduled	0	0.00	170,623	2.75	3
Partial Scheduled	0	0.00	200,289	3.23	4
Full Forced	0	0.00	0	0.00	5
Partial Forced	140	0.03	24,235	0.39	6
Economic Dispatch	134,341	26.39	1,416,427	22.87	7
Possible MWH	509,040		6,193,320		8

* See 'Notes for Fossil Units' filed with the January 2006 report.

BASE LOAD POWER PLANT PERFORMANCE REPORT
Roxboro 4 **

	Month of June 2006		Twelve Month Summary		See Notes*
MDC	700	MW	700	MW	1
Period Hours	720	HOURS	8,760	HOURS	
Net Generation	351,395	MWH	4,156,729	MWH	2
Capacity Factor	69.72	%	67.79	%	
Equivalent Availability	100.00	%	94.65	%	
Output Factor	69.72	%	68.66	%	
Heat Rate	10,709	BTU/KWH	10,612	BTU/KWH	

	MWH	% of Possible	MWH	% of Possible	
Full Scheduled	0	0.00	77,770	1.27	3
Partial Scheduled	0	0.00	188,448	3.07	4
Full Forced	0	0.00	0	0.00	5
Partial Forced	0	0.00	62,007	1.01	6
Economic Dispatch	152,605	30.28	1,647,046	26.86	7
Possible MWH	504,000		6,132,000		8

* See 'Notes for Fossil Units' filed with the January 2006 report.
** Gross of Power Agency

Plant	Unit	Current MW Rating	January 2005 - December 2005	June 2006	January 2006 - June 2006
Asheville	1	198	67.75	74.49	73.87
Asheville	2	194	70.36	59.74	50.18
Cape Fear	5	143	71.61	69.61	80.79
Cape Fear	6	173	64.61	64.33	64.59
Lee	1	79	51.59	53.67	52.70
Lee	2	76	51.41	63.42	44.24
Lee	3	252	61.16	64.60	65.39
Mayo	1	745	75.91	65.12	64.58
Robinson	1	174	77.78	80.10	80.45
Roxboro	1	385	77.66	81.72	73.12
Roxboro	2	670	64.35	63.78	82.45
Roxboro	3	707	68.49	73.58	72.69
Roxboro	4	700	67.87	69.72	64.33
Sutton	1	97	51.17	57.75	45.71
Sutton	2	106	54.71	53.95	47.76
Sutton	3	410	59.66	53.38	52.57
Weatherspoon	1	49	44.37	23.57	36.80
Weatherspoon	2	49	42.93	35.54	39.60
Weatherspoon	3	78	61.89	43.55	55.30
Fossil System Total		5,285	67.22	66.18	66.63
Brunswick	1	938	94.38	98.85	80.80
Brunswick	2	937	86.02	99.01	93.83
Harris	1	900	100.59	100.54	78.23
Robinson Nuclear	2	710	92.77	102.71	104.79
Nuclear System Total		3,485	93.49	100.12	88.53
Total System		8,770	77.59	79.66	75.33

Amended SC Fuel Rule
Related to Nuclear Operations

There shall be a rebuttable presumption that an electrical utility made every reasonable effort to minimize cost associated with the operation of its nuclear generation system if the utility achieved a net capacity factor ≥ 92.5% during the 12 month period under review. For the test period April 1, 2006 through June 30, 2006, actual period to date performance is summarized below:

Period to Date: April 1, 2006 to June 30, 2006

Nuclear System Capacity Factor Calculation (Based on net generation)

A. Nuclear system actual generation for SCPSC test period	A =	6,325,537	MWH
B. Total number of hours during SCPSC test period	B =	2,183	hours
C. Nuclear system MDC during SCPSC test period (see page 2)	C =	3,485	MW
D. Reasonable nuclear system reductions (see page 2)	D =	1,309,143	MWH
E. SC Fuel Case nuclear system capacity factor: [(A+D) / (B+C)] * 100 =		100.4%	

NOTE:
If Line Item E ≥ 92.5%, presumption of utility's minimum cost of operation.
If Line Item E < 92.5%, utility has burden of proof of reasonable operations.

Amended SC Fuel Rule
Nuclear System Capacity Factor Calculation
Reasonable Nuclear System Reductions
Period to Date: April 1, 2006 to June 30, 2006

Nuclear Unit Name and Designation	BNP Unit # 1	BNP Unit # 2	HNP Unit # 1	RNP Unit # 2	Nuclear System
Unit MDC	938 MW	937 MW	900 MW	710 MW	3,485 MW
Reasonable refueling outage time (MWH)	160,194	0	829,590	0	
Reasonable maintenance, repair, and equipment replacement outage time (MWH)	3,638	231,476	22,185	6,384	
Reasonable coast down power reductions (MWH)	0	3,591	0	0	
Reasonable power ascension power reductions (MWH)	5,276	35,063	0	0	
Prudent NRC required testing outages (MWH)	5,343	20	0	6,384	
SCPSC identified outages not directly under utility control (MWH)	0	0	0	0	
Acts of Nature reductions (MWH)	0	0	0	0	
Reasonable nuclear reduction due to low system load (MWH)	0	0	0	0	
Unit total excluded MWH	174,451	270,149	851,775	12,767	
Total reasonable outage time exclusions [carry to Page 1, Line D]					1,309,143